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# **Air Force Information Operations**



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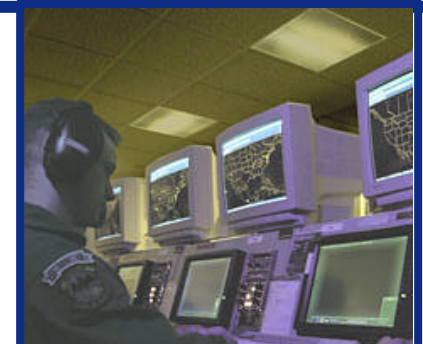
REPORT DOCUMENTATION PAGE			Form Approved OMB No. 0704-0188	
Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing this collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. PLEASE DO NOT RETURN YOUR FORM TO THE ABOVE ADDRESS.				
1. REPORT DATE (DD-MM-YYYY) 22-04-2002		2. REPORT TYPE Briefing		3. DATES COVERED (FROM - TO) xx-xx-2002 to xx-xx-2002
4. TITLE AND SUBTITLE Air Force Information Operations Unclassified			5a. CONTRACT NUMBER	
			5b. GRANT NUMBER	
			5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S) Shaffer, Glen ;			5d. PROJECT NUMBER	
			5e. TASK NUMBER	
			5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME AND ADDRESS USAF XXXXX, XXXXXXX			8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME AND ADDRESS USAF ,			10. SPONSOR/MONITOR'S ACRONYM(S)	
			11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT APUBLIC RELEASE ,				
13. SUPPLEMENTARY NOTES				
14. ABSTRACT See report.				
15. SUBJECT TERMS IATAC Collection				
16. SECURITY CLASSIFICATION OF:		17. LIMITATION OF ABSTRACT	18. NUMBER OF PAGES	19. NAME OF RESPONSIBLE PERSON
		Public Release	18	email from Booz, Allen & Hamilton (IATAC), (blank) lfenster@dtic.mil
a. REPORT Unclassified	b. ABSTRACT Unclassified	c. THIS PAGE Unclassified		19b. TELEPHONE NUMBER International Area Code Area Code Telephone Number 703767-9007 DSN 427-9007
				Standard Form 298 (Rev. 8-98) Prescribed by ANSI Std Z39.18

REPORT DOCUMENTATION PAGE			Form Approved OMB No. 074-0188	
Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing this collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503				
1. AGENCY USE ONLY (Leave blank)		2. REPORT DATE 4/22/2002	3. REPORT TYPE AND DATES COVERED Briefing 4/22/2002	
4. TITLE AND SUBTITLE Air Force Information Operations			5. FUNDING NUMBERS	
6. AUTHOR(S) Shaffer, MAJ Gen Glen				
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)  United States Air Force			8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES)  United States Air Force			10. SPONSORING / MONITORING AGENCY REPORT NUMBER	
11. SUPPLEMENTARY NOTES				
12a. DISTRIBUTION / AVAILABILITY STATEMENT Approved for public release; Distribution unlimited			12b. DISTRIBUTION CODE  A	
13. ABSTRACT (Maximum 200 Words)  A briefing about information operations from the Phoenix Challenge 2002 Conference and Warfighter Day.				
14. SUBJECT TERMS IATAC Collection, information operations			15. NUMBER OF PAGES  17	
			16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORT  UNCLASSIFIED	18. SECURITY CLASSIFICATION OF THIS PAGE  UNCLASSIFIED	19. SECURITY CLASSIFICATION OF ABSTRACT  UNCLASSIFIED	20. LIMITATION OF ABSTRACT  UNLIMITED	



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# ***Information Operations***



***Those Operations Conducted to  
Achieve Information Superiority.***





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# ***Information Superiority***

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- **Knowing What You Need to Know to Win**
  - **...It Is Being Able to 'See' the Battlespace**
  - **...Find Targets, Fix Targets, Assess Targets**
  - **...Find Threats...and Turn Them into Targets**
  - **...Warn**
  - **...Determine Effects**
  - **...Know the Enemy Better Than He Knows You**
  - **...See the Battlespace and Keep Your Enemy in the Fog**
- **ENABLES VICTORY IN WARFARE**

**Information Superiority Gives Decision Superiority**



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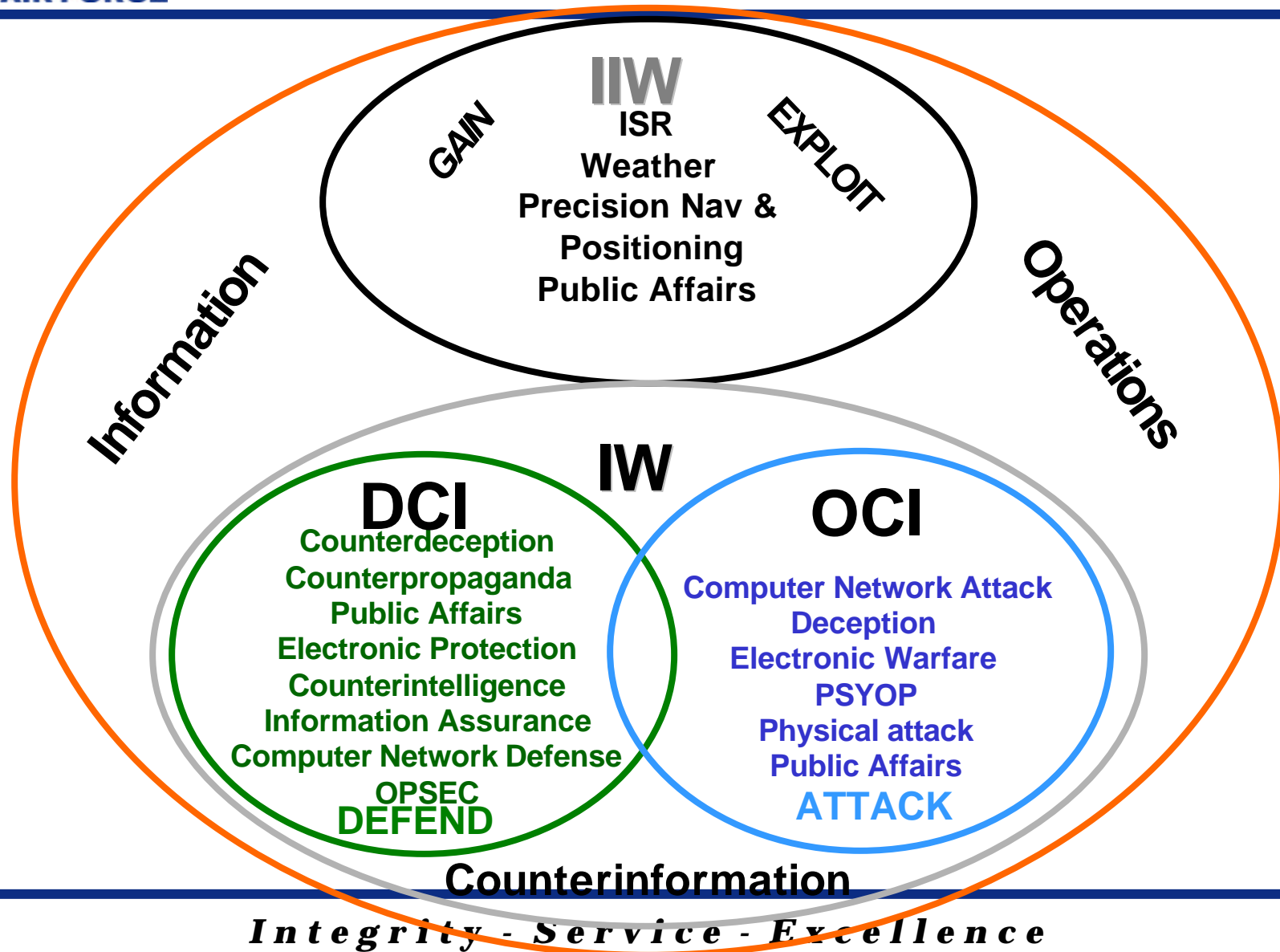
# ***Information Superiority***

- **Information Superiority, Like Air Superiority**
  - **...Doesn't Just Happen**
  - **...You Have to Fight to Get It and Keep It**
  - **...Requires Multiple, Complex Ops to Achieve**
  - **...Enables All Other Ops**
  - **...is Required to Win**
  - **...is Usually Taken for Granted by Others**
  
- **Unlike Air Superiority**
  - **...the Info Superiority Fight Begins Well Before the First Weapon Goes Off**
  - **...it is Fought in Air, Space, Ground, and Information Domains**



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# AF Doctrine AFDD 2-5





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# ***Information In Warfare (liW)***

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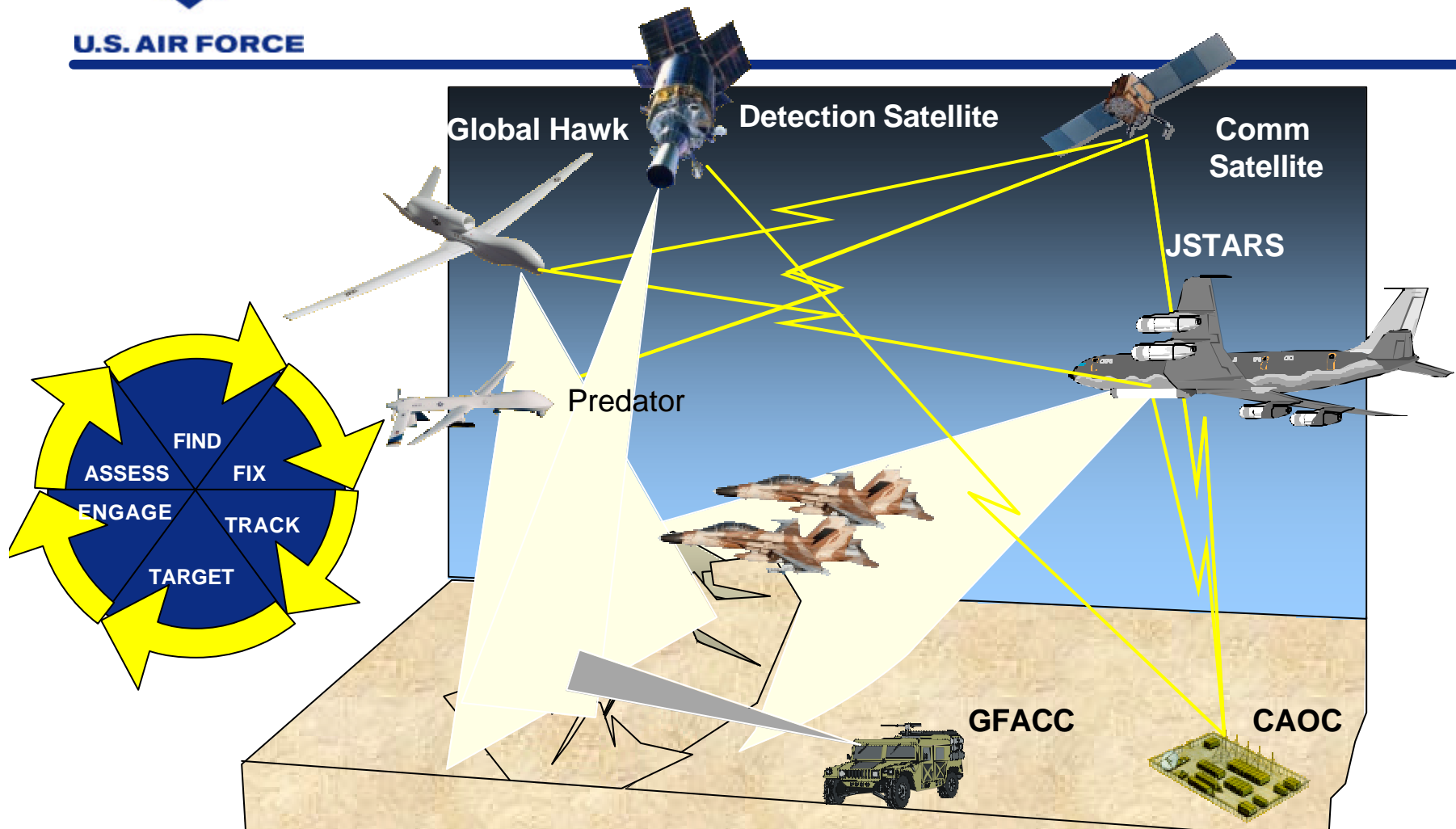
- **Finds Targets...Turns Threats Into Targets**
- **In Your Face**
- **Begins Well Before Fight**
- **Must Lead the Fight**
- **Confirms PBA/IPB**
- **Fundamental to Knowing the Enemy**
- **Must Be C2'd**
- **Uses Air, Space, and Human Assets**
- **Uses Air Force, National, and Other Service Assets**





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# The Kill Chain



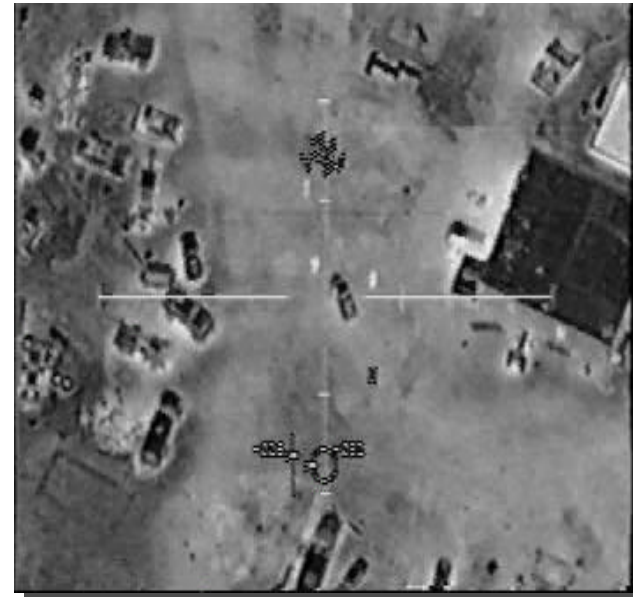
**ISR Synchronization begins with Predictive Battlespace Awareness merging National, Theater, and Tactical ISR for Warfighting**



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# ***Goal: Knowledge Dominance***

- Persistent, focused, global surveillance in peace
- Alert decision-makers of emerging situations and threats
- Seamless transition to persistent, PBA in crisis
- Enable commander to produce desired effects to win





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# ***liW Concerns***

- Battlespace transformed by information technology
- Sophisticated foes threaten US interests at home and abroad
- Technology integration and acquisition timelines
- Enemy Camouflage, Concealment, Deception and Counter Measures
- Anti-access and asymmetric threats
- Complexity of terrain
- Environment/Weather
- Fleeting targets
- Personnel Tempo





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# ***Required IIW Capabilities***

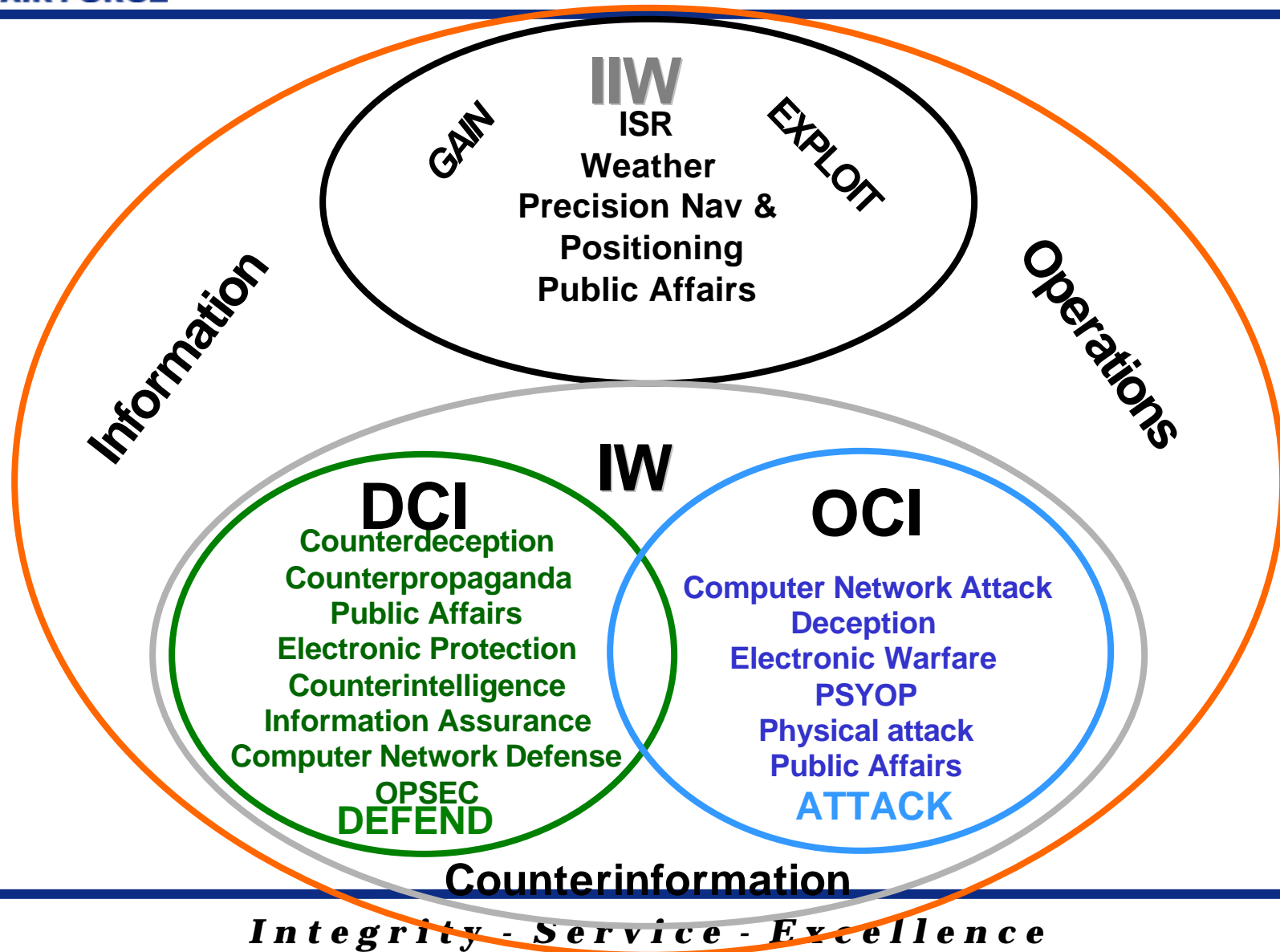
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- **Multi-sensor C2 and ISR constellation**
- **Immediate and continuous access to shared, scalable, accurate, timely visualization of the battlespace**
- **Predictive awareness of adversary intentions and reactions**
- **Distributed ISR operations**
- **Collaborative environment that allows decision-makers and analysts to interact real-time**
- **Knowledge dissemination that allows rapid reaction to operational requirements and promotes knowledge superiority**
- **Responsive planning to established and emerging requirements**



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# AF Doctrine AFDD 2-5

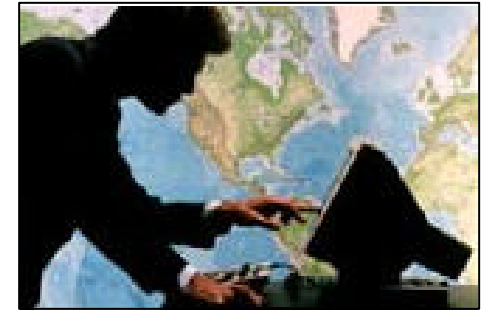




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# ***Information Warfare***

- Today...Combat Ops Depend on Secure Info
- Not Just Cyber
- Must be Normalized as Any Other Weapon
- Integrated Ops by JFACC
- A Force Multiplier
- Denies Enemy's View of the Battlespace







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# ***Information Warfare***

- **Defends Networks - CND**
- **Defends Information - IA**
- **Defends Aircraft - EP & ESM**
- **Gain, Exploit, Attack, Defend - PA**



- **Attacks Radars - EW**
- **Attacks Networks - CNA**
- **Attacks Info Sources - Phys Attack**
- **Attacks Morale - PSYOP**



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# ***Information Warfare Flights***

- **Infusing IW flights into NAFs and MAJCOMs for AOC Operation**
- **Integrate full spectrum IW capabilities with Major Command Information Assurance capabilities**



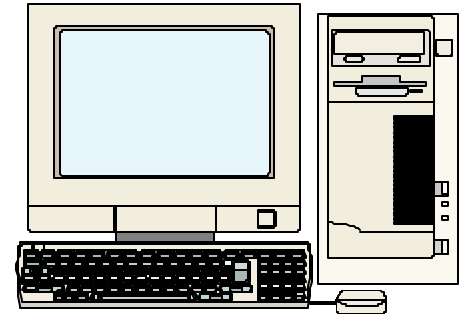




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# ***Information Warfare Concerns***

- Battlespace transformation caused by information technologies
- Technology integration and acquisition timelines
- Sophisticated foes threaten US interests at home and abroad
- Engaged in multiple AORs 24/7 against fleeting targets
- Access
- People
  - Training
  - Personnel Tempo
  - End strength





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# ***Homeland Security Issues***

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- **In the past**, relied on two oceans, friendly nations, and robust nuclear triad to protect our homeland.
  - Homeland defense's primary focus was deterring the nuclear threat.
- **Today**, our adversaries' goals include creating terror through disruption of this nation's economic system, population centers, and infrastructure.
  - Deterrence theory may not work. . .
- **Issue**: How do you employ IO for Homeland Defense?



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# ***Summary***

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- **IO Must Be Integrated With All Other Operations To Win**
- **Requires trained, experienced IO warriors...keeping pace with technological advancements...using proven tactics, techniques and procedures**
- **Technology has allowed us to dramatically broaden where effects can occur**
- **Stepping Out to Normalize Information Operations**